

SONY



The following FCC statement applies only to the version of this model manufactured for sale in the USA. Other versions may not comply with FCC technical regulations.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

If you have any questions about this product:

Visit: www.sony.com/walkmansupport

Contact: Sony Customer Information Service Center at 1-(866)-456-7669

Write: Sony Customer Information Services Center
12451 Gateway Blvd., Fort Myers, FL 33913

Declaration of Conformity

Trade Name: SONY
Model No.: NWZ-B103F/B105F
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo, San Diego CA 92127 U.S.A.
Telephone Number: 858-942-2230

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Notice for users

- The recorded song is limited to private use only. Use of the song beyond this limit requires permission of the copyright holders.
- Sony is not responsible for incomplete recording/downloading or damaged file due to problems of the player or computer.
- The ability to display the languages on supplied software will depend on the installed OS on your computer. For better results, please ensure that the installed OS is compatible with the desired language you want to display.
 - We do not guarantee all the languages will be able to be displayed properly on supplied software.
 - User-created characters and some special characters may not be displayed.
- Depending on the types of the text and characters, the text shown on the player may not be displayed properly on device. This is due to:
 - The capacity of the connected player.
 - The player is not functioning normally.
 - Content information is written in the language or the character that is not supported by the player.

On sample audio data

The player is pre-installed with sample audio data. To delete this audio data, delete it using Windows Explorer.

If you delete sample audio data, you cannot restore it. We cannot supply any replacement data.

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Getting Started

Thank you for purchasing the NWZ-B103F/B105F^{*1}.

By transferring songs from your computer to the player by drag and drop, you can enjoy them wherever you go. You can also listen to FM radio and record voice using the player.

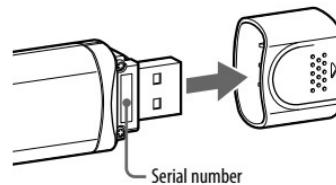
Supplied Accessories

Please check the accessories in the package.

- Headphones (1)
- CD-ROM *² *³ (1)
 - MP3 Conversion Tool
 - Operation Guide (this manual)
- Quick Start Guide (1)

About the serial number

The serial number provided for the player is required for the customer registration. The number is shown on the rear of the USB connector base of the player.



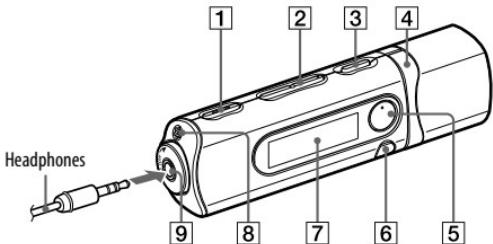
*¹ Depending on the country/region in which you have purchased the player, some models may not be available.

*² Do not attempt to play this CD-ROM in an audio CD player.

*³ Depending on the country/region in which you have purchased the player, the supplied software may be different.

Parts and Controls

Front



1 REC/STOP button (page 33, 36)

Starts/stops recording. You can record the sound from the microphone or the currently received FM program.

2 VOL +*/- button

Adjusts the volume.

3 I/ (Power ON/OFF) button (page 14)

Turns on/off the player.

4 I</>FF button (page 11, 22)

Selects a song, album, artist, folder or menu item. You can also skip to the beginning of the song/album/artist/folder, fast-forward or fast-rewind.

5 ►II*1 button (page 11, 18)

Starts/pauses song playback or pauses/restarts recording. When a menu appears on the display, use this button to confirm menu item.

6 BACK/HOME*2 button (page 11)

Returns to the previous menu. Press and hold this button to display the HOME menu.

7 Display (page 21)

8 Microphone (page 36)

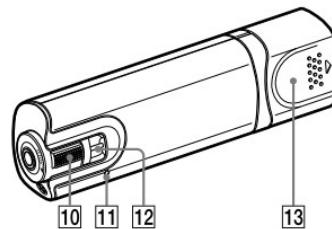
9 (Headphone) jack

When connecting the headphones, insert the plug until it clicks into place. If connected improperly, it may not sound right.

*1 There are tactile dots. Use them to help with button operations.

*2 Functions which are marked ● near the buttons are activated if you press them. Likewise functions marked ■ near the buttons, are activated if you press and hold them.

Rear



10 HOLD switch

You can protect the player against accidental operation by using the HOLD switch when carrying it.

By rotating the HOLD switch in the direction of the arrow (→), all the buttons are inoperable. If you press buttons while the HOLD function is activated, "HOLD" and the current time appears in the display. (The current time appears only when the clock is set (page 41).)

If you rotate the HOLD switch to the opposite position, the HOLD function is released.

11 RESET button (page 43)

Resets the player when you press the RESET button with a small pin, etc.

When you turn on the player after resetting it, the player activates resuming the previous setting items.

12 Strap hole

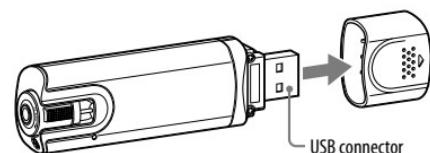
This is used to attach a strap (sold separately).

13 USB cap

Remove the USB cap and insert the USB connector of the player to a USB port on your computer.

To remove the USB cap

Remove the USB cap as shown below.



HOME menu

The HOME menu appears when you turn on the player or press and hold the BACK/HOME button of the player. The HOME menu is the starting point to play songs, listen to FM radio, play recorded sound files, and change settings.

HOME menu



4 icons appear in the display with the current selection in the center. The current icon changes depending on the function you use.

Voice Plays/deletes recorded sound file (☞ page 37).

Music Library Plays transferred songs on the player (☞ page 17).

FM Plays FM radio, or plays back or deletes a recorded FM program (☞ page 27).

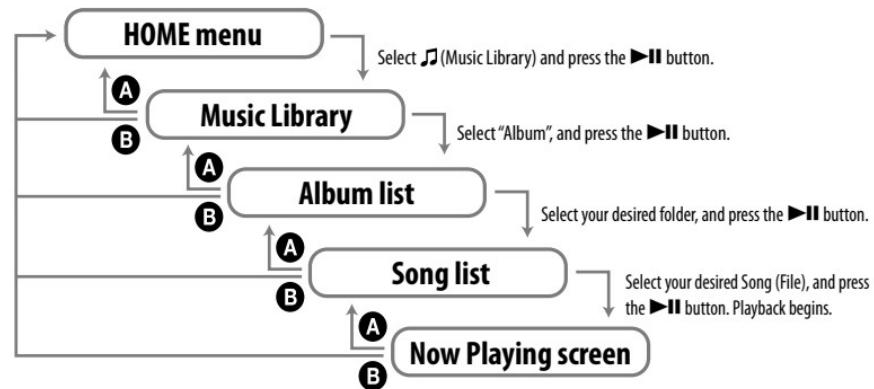
Settings Sets function settings of music, FM, voice recording, or the player (☞ page 39).

To operate the HOME menu

When menu items appear on the HOME menu, press the **◀◀/▶▶** button to select an item, and then press the **▶▶** button to confirm.

When menu items appear on the HOME menu and you press the BACK/HOME button, the screen returns to the previous menu. If you press and hold it, the screen returns to the HOME menu.

For example, when you want to play back a song by selecting (Music Library) - Album from on the HOME menu, the menu changes as follows.



A Press the BACK/HOME button.

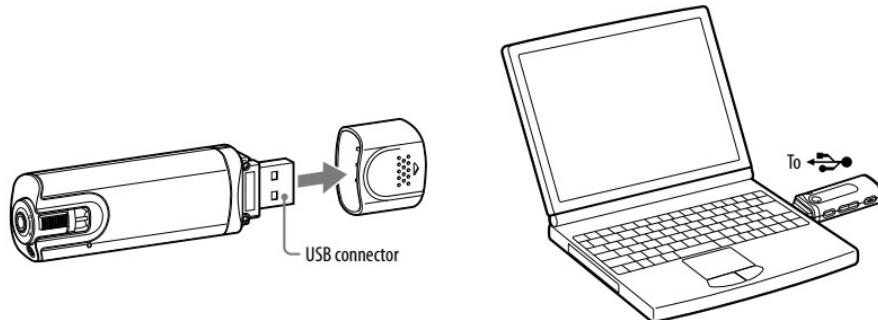
B Press and hold the BACK/HOME button.

Before Connecting the Player

Before connecting the player to your computer, make sure that the OS is Windows XP (Service Pack 2 or later) or Windows Vista, and the installed Windows Media Player version on your computer is 10 or 11.

Charging the Battery

The player's battery is recharged while the player is connected to a running computer. Remove the USB cap and insert the USB connector to a USB port on your computer.



When the remaining battery indication of the display shows: Full, charging is complete. When you use the player for the first time, or if you have not used the player for a long time, recharge it fully until Full appears on the screen. For details on charging time or battery life, see page 67.

Note

- Be careful not to accidentally bump or put stress on the player when it is connected to your computer. It may be damaged.

On the remaining battery indication

The battery icon in the display (page 21) changes as shown below. See page 67 for details on battery duration.



The battery power gets low as shown in the battery icon. If "LOW BATTERY" appears, you cannot operate the player. In this case, charge the battery by connecting to your computer.

Notes

- Charge the battery in an ambient temperature of between 5 to 35 °C.
- The number of times the battery can be recharged before it is used up is approximately 500 times. This number differs, depending on the conditions under which you use the player.
- The battery indicator on the display is only an estimate. For example, one section of black in the indicator will not always indicate exactly one-fourth of the battery's charge.
- "DATA ACCESS" appears in the display while the player accesses the computer. Do not disconnect the player while "DATA ACCESS" appears or the file being transferred may be destroyed.

Basic Operations (continued)

- When disconnecting the player from your computer, follow the procedure below.
 - Double-click  (Remove Hardware) in the task tray in the lower right portion of the screen. In the windows that appears, click [USB Mass Storage Device] or [USB Disk], and then click [Stop].
 - Click [OK].
- When "Safe To Remove Hardware" appears on the screen, disconnect the player from the computer. The icon and the messages displayed may be different depending on the installed OS.
- The control buttons on the player are all disabled while it is connected to a computer.
- Some USB devices connected to the computer may interfere with the proper operation of the player.
- We do not guarantee the recharge of the battery using personally assembled computers or modified computers.

Turning the Player On and Off

To turn on the player

Press the  (Power ON/OFF) button so that the screen appears. The player activates resuming the previous setting items.

To turn off the player

When the player is turned on, press and hold the  (Power ON/OFF) button until "POWER OFF..." appears.

Hint

- To save the battery consumption, the player activates the functions as follows:
 - After turning on the power if there is no operation and playback performed for about 1 minute, the power of the player turns off.
 - If there is no operation for a certain period of time while in stop mode, the display turns off automatically and the player enters stand-by status. When there is no operation for the next 30 minutes, the power of the player turns off.

Transferring Music

Connect the player to your computer and transfer an audio file to the player.

Hints

- You can also transfer audio files using Windows Media Player 10 or 11. For details about usage, or support on Windows Media Player, refer to the Windows Media Player information from the following web site:
<http://support.microsoft.com/>
- ATRAC files need to be converted using the supplied MP3 Conversion Tool. (Audio data purchased from a music distribution service on the Internet cannot be converted.)
To use the supplied MP3 Conversion Tool, install the supplied CD-ROM on your computer and select the  icon from the left side of the install menu, then click [Start] on the bottom-right.
Note that when converting ATRAC files to MP3 files, the ATRAC files are not deleted. You can also delete the ATRAC files by setting the Option.

Note

- Only MP3/WMA files can be played on the player (☞ page 65).

1 Connect the player directly to a USB port on your computer.

If the screen for selecting what you want Windows to do appears, select [Open folder to view files] and click [OK], and then go to step 3.

2 Open the folder in the hierarchy under [WALKMAN] from [My Computer].

Data hierarchy may differ, depending on your computer environment.

3 Open the folder ([My Music], etc.) from where you want to transfer the audio files, and then drag and drop them onto the player.

The audio files are transferred to the player.

You can also transfer files to the player by dragging and dropping a folder.

Continued ☞

To delete songs transferred to the player

Connect the player to your computer, and then delete any unnecessary audio files using Windows Explorer.

Notes

- Be careful not to accidentally bump or put stress on the player when it is connected to your computer. It may be damaged.
- The player does not use SonicStage software (SonicStage software, developed by Sony, manages music on a computer or transfers music to other types of players). For this player, you can transfer music simply by dragging and dropping, not using SonicStage.
- Do not disconnect the player while a file is being transferred. If you do, the file being transferred may be damaged.
- When disconnecting the player from your computer, follow the procedure below.

- ① Double-click  (Remove Hardware) in the task tray in the lower right portion of the screen. In the windows that appears, click [USB Mass Storage Device] or [USB Disk], and then click [Stop].
- ② Click [OK].
- ③ When "Safe To Remove Hardware" appears on the screen, disconnect the player from the computer.

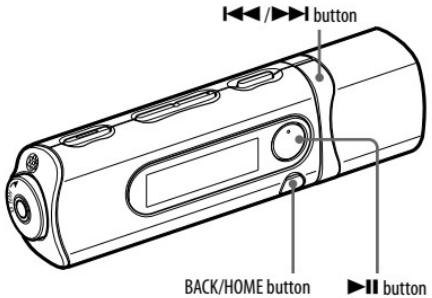
The icon and the messages displayed may be different depending on the installed OS.

- If the player is disconnected while files are being transferred, unnecessary files may be left in the player. In this case, transfer usable files back to the computer and format the player (☞ page 42).
- Some files may not be played back with the player due to copyright protection.
- The player can display up to a combined total of 999 files and folders, and folders of up to 8 levels. Although you can transfer more files or folders to the player, the player cannot display or play any files, folders, or levels that exceed this limit.
- Data hierarchy may differ, depending on your computer environment.
- It may take time to start up the player or display the file/folder list when many files or folders are stored on the player.

Playing Music

You can search for desired songs in the following ways.

- Searching for songs by artist, album, and song name, etc. ("Artist/Album/Song Sort" mode)
- Searching for songs by folder and file name ("Folder/File Name Sort" mode)



Note

- Before playing songs:
 - Confirm that the battery power is not low or exhausted (☞ page 13). If it is low or exhausted, recharge the battery (☞ page 12).
 - Disconnect the player from the computer.
 - Release the HOLD function (☞ page 9).
 - Turn on the player (☞ page 14).

Searching for songs by artist, album, or song name, etc.

You can search the desired song by artist/album/song name, etc.

1 Press and hold the BACK/HOME button until the HOME menu appears.

2 Press the $\blacktriangleleft/\triangleright$ button to select  (Music Library), and then press the $\blacktriangleright/\text{II}$ button to confirm.

The following lists appear.

- "Now Playing": Plays back the last file* you listened to.
- "All Songs": Searches for a song by song name.
- "Artist": Searches for a song by artist.
- "Album": Searches for a song by album.
- "Genre": Searches for a song by genre.
- "Release Year": Searches for a song by release year.
- "Playlists": Searches for a song by playlist.
- "Folder/File Name Sort": Switches to the "Folder/File Name Sort" mode. In this mode, you can search for desired songs by folder and file name.

* File includes the song, recorded FM radio program, or recorded sound using the "Voice" menu, that you last listened to.

3 Press the $\blacktriangleleft/\triangleright$ button to select an item, and then press the $\blacktriangleright/\text{II}$ button to confirm.

To find the song you want, repeat this step.

4 Press the $\blacktriangleleft/\triangleright$ button to select a song, and then press the $\blacktriangleright/\text{II}$ button to confirm.

Playback starts.

Hint

- You can edit or change ID3 tag information and the playlist using Windows Media Player 10 or 11. For details about usage, or support on Windows Media Player, refer to the Windows Media Player information from the following web site:
<http://support.microsoft.com/>

Notes

- Only songs that have ID3 tag information can be automatically classified by the player.
- If an artist or album has no name, "Unknown" appears. If any songs have no name, assigned file names for each song appear.
- The player can display up to a combined total of 999 files and folders, and folders of up to 8 levels. Although you can transfer more files or folders to the player, the player cannot display or play any files, folders, or levels that exceed this limit.
- Data hierarchy may differ, depending on your computer environment.
- It may take time to start up the player or display the file/folder list when many files or folders are stored on the player.

To return to the previous menu

Press the BACK/HOME button.

Searching for songs by folder and file name

You can search the desired song by the folder/file name.

1 Press and hold the BACK/HOME button until the HOME menu appears.

2 Press the **◀◀/▶▶** button to select **♪** (Music Library), and then press the **▶II** button to confirm.

The following lists of transferred songs and folders appear.

- “Now Playing”: Plays back the last file* you listened to.
- “Play All”: Plays back all songs on the player.
- Folder name: Displays the level 1 folders.
- Song name: Displays the level 1 songs.
- “Artist/Album/Song Sort”: Switches to the “Artist/Album/Song Sort” mode. In this mode, you can search for desired songs by artist, album, and song name, etc.

* File includes the song, recorded FM radio program, or recorded sound using the “Voice” menu, that you last listened to.

3 Press the **◀◀/▶▶** button to select an item, and then press the **▶II** button to confirm.

To find the song you want, repeat this step.

4 Press the **◀◀/▶▶** button to select a song, and then press the **▶II** button to confirm.

Playback starts.

Notes

- The player can display up to a combined total of 999 files and folders, and folders of up to 8 levels. Although you can transfer more files or folders to the player, the player cannot display or play any files, folders, or levels that exceed this limit.
- Data hierarchy may differ, depending on your computer environment.
- It may take time to start up the player or display the file/folder list when many files or folders are stored on the player.

To return to the previous menu

Press the BACK/HOME button.

Display

When selecting “Artist/Album/Song Sort” mode



1 Song title/Album title indication

For the “Artist/Album/Song Sort” mode, displays song title and album title currently played back. When you select “All Songs,” the current song title/current artist name is displayed.

For the “Folder/File Name Sort” mode, displays file name and folder name currently play back.

2 Playback range indication

Displays the playback range.

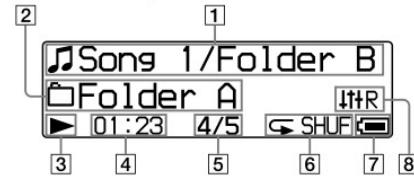
3 Playing status indication

Displays the current play mode (▶: playback, II: pause, ▶◀ (▶▶): fast-rewind (or fast-forward), ▶◀ (▶▶): skip to the beginning of the current (or next) song).

4 Elapsed time indication

Displays the elapsed time.

When selecting the “Folder/File Name Sort” mode



5 Current song number/total song number indication

Displays the song number currently selected or being played back and the total number of songs.

6 Play mode indication

Displays the current play mode icon (page 24). If the play mode is set to “Normal,” no icon appears.

7 Remaining battery indication

Displays the remaining battery power.

8 Equalizer mode indication

Displays the current equalizer mode (page 26).

On other operations for playback

To	Button operation
Pause the song	Press the ▶ button.
Restart playback	Press the ▶ button while the song is paused.
Skip to the beginning of the current (or next) song	Press the ◀◀ (▶▶) button.
Fast-rewind (or fast-forward) the current song	Press and hold the ◀◀ (▶▶) button during playback and release it at the desired point.

💡 Hint

- The player offers a variety of play modes, including random play and selected repeat play (☞ page 24). You can also change the sound quality with the equalizer settings (☞ page 26).

Setting the Play Mode

The player offers a variety of play modes, including random play and selected repeat play.

- 1 Press and hold the BACK/HOME button until the HOME menu appears.
- 2 Press the **|◀◀ /▶▶|** button to select **≡ (Settings)**, and then press the **▶||** button to confirm.
- 3 Press the **|◀◀ /▶▶|** button to select “Music Settings,” and then press the **▶||** button to confirm.
- 4 Press the **|◀◀ /▶▶|** button to select “Play Mode,” and then press the **▶||** button to confirm.
- 5 Press the **|◀◀ /▶▶|** button to select the desired play mode, and then press the **▶||** button to confirm.

To return to the previous menu

Press the BACK/HOME button.

Continued ☞

List of play modes

Setting item/Icon	Description
"Normal"/No icon	After the current song ends, all songs in the selected folder/album/artist are played once. (Default setting)
Repeat all/ 	After the current song ends, all songs in the selected folder/album/artist are played repeatedly.
Repeat 1 song/  1	The current song is played repeatedly.
Repeat shuffle all/  SHUF	After the current song ends, all songs in the selected folder/album/artist are played in random order.

Setting the Sound Quality

You can set your desired sound quality according to the music genre, etc.

- 1 Press and hold the BACK/HOME button until the HOME menu appears.
- 2 Press the  button to select  (Settings), and then press the  button to confirm.
- 3 Press the  button to select "Music Settings," and then press the  button to confirm.
- 4 Press the  button to select "Equalizer," and then press the  button to confirm.
- 5 Press the  button to select the desired equalizer setting, and then press the  button to confirm.

To return to the previous menu

Press the BACK/HOME button.

List of equalizer settings

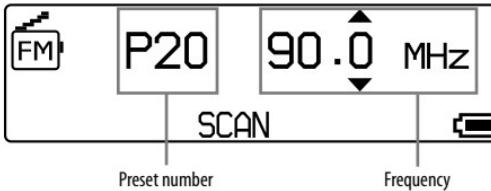
Setting item/Icon	Description
"EQ OFF"/No icon	Turns off the equalizer (Default setting).
"EQ Heavy"/ 	Emphasizes high and low ranges for a more powerful sound.
"EQ Rock"/ 	Emphasizes high and low ranges for a powerful sound.
"EQ Classical"/ 	Emphasizes high and low ranges, so that even soft sounds can be heard easily.
"EQ Pop"/ 	Stresses the middle range audio, ideal for vocals.
"EQ Jazz"/ 	Emphasizes high and low ranges for a lively sound.
"EQ Custom"/ 	User-customizable sound settings. When you press the  button to select "Edit," and then press the  button, you can edit the sound setting. To edit the sound setting, press the  button to select the band (5 bands: 100 Hz to 10 kHz) and press the  button to confirm. Then press the  button to select the sound level (7 levels: -3 to +3) and press the  button to confirm. Repeat this step to set the sound level of every band. If you return to the previous menu using the BACK/HOME button after setting the sound level, the setting you have changed will be canceled. Be sure to press the  button to confirm.

Listening to FM Radio in the Manual Tuning Mode

Be sure to connect the headphones to the player, or the player cannot receive any FM signal.

- 1 Press and hold the BACK/HOME button until the HOME menu appears.
- 2 Press the  button to select  (FM), and then press the  button to confirm.
- 3 Check that "Manual" is selected, and then press the  button to confirm.

The player enters the manual tuning mode.

**Notes**

- The preset number is shown only when the current frequency is already preset (☞ page 29).
- The illustrated FM tuner screen may be different from your model.

4 Press the button to select the previous (or next) frequency.

The frequency is changed by 0.1 MHz.

To	Button operation
Select the next frequency	Press the button.
Select the previous frequency	Press the button.
Select the next receivable broadcast station	Press and hold the button.
Select the previous receivable broadcast station	Press and hold the button.



- By pressing and holding the button during FM reception, the previous (or next) broadcast station is found. If the broadcast station is receivable, the signal is accepted.

To return to the previous menu

Press the BACK/HOME button.

To improve the reception

The headphone's cord serves as the antenna, so extend it as far as possible.

Listening to FM Radio in the Preset Tuning Mode

Presetting Desired Broadcast Stations

You can preset up to 30 receivable broadcast stations (P01 to P30) in your area automatically using the "FM Auto Preset" function.

When you use the FM tuner for the first time, or when you move to a new area, we recommend presetting receivable broadcast stations using the "FM Auto Preset" function.

Note

- The "FM Auto Preset" operation will delete already preset broadcast stations.

1 Press and hold the BACK/HOME button until the HOME menu appears.

2 Press the button to select (Settings), and then press the button to confirm.

3 Press the button to select "FM Settings," and then press the button to confirm.

4 Press the **◀◀/▶▶** button to select “FM Auto Preset,” and then press the **▶II** button to confirm.

5 Press the **◀◀/▶▶** button to select “OK,” and then press the **▶II** button to confirm.

The receivable broadcast stations will be preset in order from low to high frequency. “COMPLETE” appears when presetting is completed, then the first preset station is received.

Notes

- The preset number is always sorted from low to high frequency order.
- While you are using the “FM Auto Preset” function, do not activate the HOLD function.

To stop automatic presetting

Select “Cancel” in step 5 and press the **▶II** button to confirm.

To return to the previous menu

Press the BACK/HOME button.

To preset broadcasting stations manually

1 Press and hold the **▶II** button during FM reception.

2 Press the **◀◀/▶▶** button to select “Add Preset,” and then press the **▶II** button to confirm.

3 Press the **◀◀/▶▶** button to select the preset number you want to assign to the current frequency, and then press the **▶II** button to confirm.

The current frequency is preset and the preset number appears to the left of the frequency. If you select a preset number that is already assigned to another frequency, the message confirming whether to replace the setting appears. Selecting “OK” and pressing the **▶II** button will replace the setting.

To delete a preset broadcast station

1 Press and hold the **▶II** button during FM reception.

2 Press the **◀◀/▶▶** button to select “Delete Preset,” and then press the **▶II** button to confirm.

3 Press the **◀◀/▶▶** button to select the preset number you want to delete, and then press the **▶II** button to confirm.

4 Press the **◀◀/▶▶** button to select “OK,” and then press the **▶II** button to confirm.

The preset broadcast station is deleted.

Selecting Broadcast Stations in the Preset Tuning Mode

You cannot select broadcast stations if no broadcast stations are preset. Preset the receivable stations using the “FM Auto Preset” function (☞ page 29), or preset the broadcast stations manually (☞ page 31).

- 1 Press and hold the BACK/HOME button until the HOME menu appears.**
- 2 Press the / button to select (FM), and then press the button to confirm.**
- 3 Press the / button to select “Preset,” and then press the button to confirm.**
The player enters the preset tuning mode.
- 4 Press the / button to select the previous (or next) preset number.**

Recording FM Radio

- 1 Press and hold the REC/STOP button while listening to the station you want to record.**
The player goes to standby to record.
- 2 Press the REC/STOP button.**
Recording starts.
- 3 To stop recording, press the REC/STOP button.**
The recording is saved as a file named FRnnnn*.mp3 in the [Record] - [FM] folder.
* File names are automatically assigned from “FR0001.mp3” to “FR9999.mp3.”

Hints

- You can also record FM radio by pressing briefly the REC/STOP button in step 1, selecting “OK,” and pressing the button to confirm.
- Recording in poor reception areas may result in noise. Record where reception is good.
- To pause recording, press the button. Press it again to continue recording.

Note

- When you rename files of the [Record] folder on your computer, or put files which have been imported to your computer back into the [Record] folder, you may not be able to play them on the player.
In this case, transfer the files which have been imported to your computer on the player to the folders other than the [Record] folder, and then play them back as audio content.

Playing Back Recorded FM Radio Programs

- 1** Press and hold the BACK/HOME button until the HOME menu appears.
- 2** Press the **◀◀/▶▶** button to select **FM** (FM), and then press the **▶II** button to confirm.
- 3** Press the **◀◀/▶▶** button to select “Play Rec Data,” and then press the **▶II** button to confirm.
- 4** Press the **◀◀/▶▶** button to select a recorded FM radio program you want, and then press the **▶II** button to confirm.

💡 Hint

- To listen to all recorded FM radio programs, select “Play All” in step 4.

To return to the previous menu

Press the BACK/HOME button.

To delete recorded FM radio programs

- 1** Press and hold the BACK/HOME button until the HOME menu appears.
- 2** Press the **◀◀/▶▶** button to select **FM** (FM), and then press the **▶II** button to confirm.
- 3** Press the **◀◀/▶▶** button to select “Delete Rec Data,” and then press the **▶II** button to confirm.
- 4** Press the **◀◀/▶▶** button to select the recorded FM radio program you want to delete, and then press the **▶II** button to confirm.
- 5** Press the **◀◀/▶▶** button to select “OK,” and then press the **▶II** button to confirm.

The selected FM radio program is deleted.

💡 Hints

- To delete all recorded FM radio programs, select “Delete All” in step 4.
- To stop deleting, select “Cancel” in step 5.

Recording Sound

You can record sound from the microphone of the player and play recorded sound files using the “Voice” menu. The recorded sound files will be in MP3 format.

Note

- Recording sound cannot work in the “FM” or “Settings” function. Change the function to “Voice” or “Music Library” to record sound.

1 In the “Voice” or “Music Library” function, press and hold the REC/STOP button.

The player goes to standby to record.

2 Press the REC/STOP button.

Recording starts.

3 To stop recording, press the REC/STOP button.

The recording is saved as a file named VRnnnn*.mp3 in the [Record] – [Voice] folder.

* File names are automatically assigned from “VR0001.mp3” to “VR9999.mp3.”

Hints

- You can also record sound by pressing briefly the REC/STOP button in step 1, selecting “OK,” and pressing the **►II** button to confirm.
- To pause recording, press the **►II** button. Press it again to continue recording.
- You can change the bit rate of the audio file. For details, see “Rec Settings”(☞ page 40).

Note

- When you rename files of the [Record] folder on your computer, or put files which have been imported to your computer back into the [Record] folder, you may not be able to play them on the player.
In this case, transfer the files which have been imported to your computer on the player to the folders other than the [Record] folder, and then play them back as audio content.

Playing Back the Recorded Sound Files

1 Press and hold the BACK/HOME button until the HOME menu appears.

2 Press the **◀▶/►II** button to select **▶** (Voice), and then press the **►II** button to confirm.

3 Press the **◀▶/►II** button to select “Play Rec Data,” and then press the **►II** button to confirm.

4 Press the **◀▶/►II** button to select a recorded sound file you want, and then press the **►II** button to confirm.

Hint

- To listen to all recorded sound files, select “Play All” in step 4.

To return to the previous menu

Press the BACK/HOME button.

Continued ☞

To delete the recorded sound files

- 1** Press and hold the BACK/HOME button until the HOME menu appears.
- 2** Press the **◀◀/▶▶** button to select **♫ (Voice)**, and then press the **▶||** button to confirm.
- 3** Press the **◀◀/▶▶** button to select “Delete Rec Data,” and then press the **▶||** button to confirm.
- 4** Press the **◀◀/▶▶** button to select the recorded sound file you want to delete, and then press the **▶||** button to confirm.
- 5** Press the **◀◀/▶▶** button to select “OK,” and then press the **▶||** button to confirm.

The selected sound file is deleted.

Hints

- To delete all recorded sound files, select “Delete All” in step 4.
- To stop deleting, select “Cancel” in step 5.

Changing the Settings

You can change the various settings using the “Settings” menu. The following procedure is the basic way to change settings.

- 1** Press and hold the BACK/HOME button until the HOME menu appears.
- 2** Press the **◀◀/▶▶** button to select **≡ (Settings)**, and then press the **▶||** button to confirm.
- 3** Press the **◀◀/▶▶** button to select the item you want, and then press the **▶||** button to confirm.
- 4** Repeat step 3 and change its value, and then press the **▶||** button to confirm each time.

To return to the previous menu

Press the BACK/HOME button.

“Music Settings”

Setting	Description
“Play Mode”	Selects a variety of play modes, including random play and selected repeat play. For details, see “Setting the Play Mode”(☞ page 23).
“Equalizer”	Selects a desired sound quality according to the music genre, etc. For details, see “Setting the Sound Quality”(☞ page 25).

"FM Settings"

Setting	Description
"FM Auto Preset"	Presets receivable broadcast stations automatically. For details, see "Presetting Desired Broadcast Stations" (☞ page 29).

"Rec Settings"

Setting	Description
"Codec" (voice record settings)	Selects a level of recording quality from "Low(96kbps)," "Mid(128kbps)," or "High(192kbps)." The higher the level is, the more memory the player uses for recording sound. "Mid(128kbps)" is set by default.

"Common Settings"

Setting	Description
"Set Date-Time"	Adjusts the date and time. To set a numerical value, use the ◀◀/▶▶ button. To move the highlighted slider, use the ▶▶ button.
"AVLS(Volume Limit)"	Selects whether or not to set "AVLS(Volume Limit)" (Automatic Volume Limiter System) to limit the maximum volume to prevent auditory disturbance or distraction. With "AVLS(Volume Limit)," you can listen to music at a comfortable volume level. "AVLS OFF" is set by default.
"Beep"	Selects to turn on/off the beep sound when pressing buttons. To turn on the beep sound, set to "Beep ON." To turn off the beep sound, set to "Beep OFF." "Beep ON" is set by default.
"Power Save Mode"	Selects the power save setting. When set to "Save ON Normal," the power save screen appears in the display when no operation is performed for about 15 seconds. When set to "Save ON Super," the screen disappears when no operation is performed for about 15 seconds. This setting uses the least battery consumption. When set to "Save OFF," the icon(s) or letter(s) appears in the display constantly during playback or FM reception. "Save ON Normal" is set by default.

"Information"

Information such as the model name, built-in flash memory capacity, and firmware version can be displayed.

- 1: model name
- 2: built-in flash memory capacity
- 3: version information for the player's firmware

"Language"

Selects the display language from "English," or "Français."

"Reset All Settings"

You can reset the player to the default settings. Resetting the player does not delete the songs you have transferred to the player.

When you want to reset the all settings, select "OK" to confirm.

"Format"

You can format the built-in flash memory of the player. If the memory is formatted, all files will be erased and all setting values returned to their defaults. Be sure to verify the files stored in memory prior to formatting and export any necessary files to the hard disk of your computer or other device.

When you want to format the player, select "OK" to confirm.

Notes

- When the remaining battery is low, you cannot format the player. Charge the battery before formatting.
- Do not format the built-in flash memory using Windows Explorer.

Troubleshooting

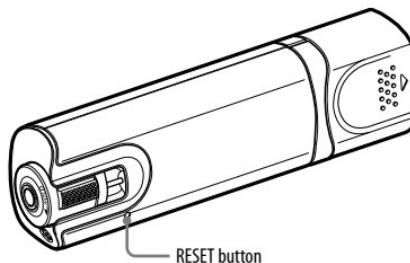
If the player does not function as expected, try the following steps to resolve the issue.

1 Find the symptoms of the issue in the following troubleshooting tables, and try any corrective actions listed.

2 Press the RESET button with a small pin, etc.

If you press the RESET button while operating the player, stored files and settings on the player may be deleted.

When you turn on the player after resetting it, the player activates resuming the previous setting items.



3 Look for information about the issue on one of the support Web sites.

For customers in the USA: <http://www.sony.com/walkmansupport>
 For customers in Canada: <http://www.sony.ca/ElectronicsSupport/>

4 If the approaches listed above fail to resolve the issue, consult your nearest Sony dealer.**Operation**

Symptom	Cause/Remedy
There is no sound.	<ul style="list-style-type: none"> The volume level is set to zero. → Turn the volume up (☞ page 8). The headphone jack is not connected properly. → Connect the headphone jack properly (☞ page 8). The headphone plug is dirty. → Clean the headphone plug with a soft dry cloth. No audio files are stored in the built-in flash memory. → If "NO DATA" appears, transfer audio file(s) from the computer.
Songs cannot be played.	<ul style="list-style-type: none"> The battery is consumed. → Charge the battery fully (☞ page 12). → If the player does not react, even after charging the battery, press the RESET button to reset the player. The transferred file is not a playable audio file format (☞ page 65). Convert the ATRAC audio data using the supplied MP3 Conversion Tool. File content, such as subscription, etc., is beyond the expiration/playback time restriction. → A file that is beyond its expiration/playback time restriction cannot be played. Update the file using your software.

Symptom	Cause/Remedy
Noise is generated.	<ul style="list-style-type: none"> A device emitting radio signals, such as a mobile phone is being used near the player. → When using such devices as mobile phones, keep them away from the player. Audio file is damaged. → Delete the audio file(s) then transfer again. When transferring audio files, close any other applications to avoid file damage.
Buttons do not work.	<ul style="list-style-type: none"> The HOLD switch is set to the direction of the arrow (↖). → Rotate the HOLD switch to the opposite direction of the arrow (↙) (☞ page 9). The player contains moisture condensation. → Wait a few hours to let the player dry. The remaining battery is low or insufficient. → Charge the battery by connecting the player to a running computer (☞ page 12). → Even after charging the battery, nothing is changed, press the RESET button to reset the player (☞ page 43).
Playback does not stop.	<ul style="list-style-type: none"> With the player, there is no difference between stopping and pausing. When you press the ▶ button, appears and playback pauses/stops.

Continued ☞

Operation (continued)

Symptom	Cause/Remedy
It takes time to start up the player.	<ul style="list-style-type: none"> It may take time to start up the player if many files or folders are stored on the player, or audio file transferred to the player has a lot of ID3 tag information. Wait until the start-up animation appears.
The transferred songs cannot be found.	<ul style="list-style-type: none"> The built-in flash memory of the player was formatted using Windows Explorer. → Format the built-in flash memory using the “Format” menu of the player (☞ page 42). The player was disconnected from the computer while files were being transferred. → Transfer usable files back to your computer and format the built-in flash memory using the “Format” menu of the player (☞ page 42). The transferred file is not a playable audio file format (☞ page 65). Convert the ATRAC audio data using the supplied MP3 Conversion Tool.
There is no sound from the right channel of the headphones. Or the right channel sound is heard from both sides of the headphones.	<ul style="list-style-type: none"> The headphone jack is not fully inserted. → If the headphones are not connected correctly, sound will not be output properly. Connect the headphones into the jack until it clicks (☞ page 8).
Playback has stopped suddenly.	<ul style="list-style-type: none"> The remaining battery is insufficient. → Charge the battery by connecting to the computer (☞ page 12).
The player cannot format.	<ul style="list-style-type: none"> The remaining battery is low or insufficient. → Charge the battery by connecting to the computer (☞ page 12).

Display

Symptom	Cause/Remedy
“□” appears for a title.	<ul style="list-style-type: none"> Characters that cannot appear on the player are involved. → Rename the title with appropriate characters on the computer.
“Unknown” is displayed for a title.	<ul style="list-style-type: none"> The title has no name. → Operate in the “Folder/File Name Sort” mode.

Power**Symptom** **Cause/Remedy**

The power does not turn on.

- The HOLD switch is set to the direction of the arrow ().
→ Rotate the HOLD switch to the opposite direction of the arrow () (☞ page 9).
- If you press the **I / O** button immediately after turning off the player, the player does not start due to the shut down processing. Wait for a few seconds, then turn on the power.
- The remaining battery is insufficient.
→ Charge the battery by connecting to the computer (☞ page 12).
→ Even after charging the battery, nothing is changed, press the RESET button to reset the player (☞ page 43).
- Delete unnecessary files.
→ Delete unnecessary files until the combined total of files and folders becomes 999 or less.
→ At least 20 MB of some free space is necessary to function normally.
You can check the free space by clicking [My Computer], right-clicking [WALKMAN], and then opening the [Properties] window by left-clicking.

Symptom**Cause/Remedy**

Battery life is short.

- The operating temperature is below 5 °C (41 °F).
→ Battery life becomes shorter due to the battery characteristics. This is not malfunction.
- Battery charging time is not enough.
→ Charge the battery until appears.
- By adjusting the settings or managing the power supply properly, it is possible to save the battery power and use the player for a longer time (☞ page 41).
- The battery is required to be replaced.
→ Consult your nearest Sony dealer.
- Copyright-protected contents are being played.
→ When copyright-protected contents are played, battery life may be shorter.

The player cannot charge the battery.

- The player is not connected to a USB port on your computer properly.
→ Disconnect the player, and then reconnect it.
- The battery is charged in an ambient temperature out of the range of 5 °C (41 °F) to 35 °C (95 °F).
→ Charge the battery in an ambient temperature of 5 °C (41 °F) to 35 °C (95 °F).
- Your computer is not on.
→ Turn on the computer.
- Your computer enters Sleep or hibernate status.
→ Release the computer from Sleep or hibernate status.

Charging completes very quickly.

- If the battery is already almost fully charged when charging begins, little time is needed to reach full charge.

Troubleshooting (continued)

Recording

Symptom	Cause/Remedy
"MEMORY IS FULL REMOVE CONTENT" is displayed even though the maximum recording time is not reached.	<ul style="list-style-type: none">The player can display up to a combined total of 999 files and folders. Although you can transfer more files or folders to the player, the player cannot display or play any files, folders, or levels that exceed this limit.<ul style="list-style-type: none">→ Delete unnecessary files until the combined total of files and folders becomes 999 or less.→ Export the recorded files to a computer.
The recording remaining time remains the same even though files are deleted.	<ul style="list-style-type: none">Due to system restrictions, the record remaining time may not recover even though some short files are deleted.
Cannot record.	<ul style="list-style-type: none">The player memory is low.<ul style="list-style-type: none">→ Delete unnecessary files.→ Export the recorded files to a computer.Necessary free space may vary, depending on the bit rate or recording time.The player can display up to a combined total of 999 files and folders. Although you can transfer more files or folders to the player, the player cannot display or play any files, folders, or levels that exceed this limit.<ul style="list-style-type: none">→ Delete unnecessary files until the combined total of files and folders becomes 999 or less.→ Export the recorded files to a computer.The player is connected to a computer.<ul style="list-style-type: none">→ Disconnect the player from the computer.

Symptom	Cause/Remedy
The total of the recorded time and the remaining time does not match the maximum recording time.	<ul style="list-style-type: none">When you record many short files, they may be recorded with automatically inserted blank spaces between files due to system restrictions. This causes an increase in total recorded time and results in the mismatch.
Recorded files cannot be deleted.	<ul style="list-style-type: none">The file or the folder which cannot be deleted is set to [Read-only] on a computer.<ul style="list-style-type: none">→ Delete the data using Windows Explorer.The battery power is low or exhausted.<ul style="list-style-type: none">→ Charge the battery fully (☞ page 12).
The folder is not deleted even though recorded files have all been deleted.	<ul style="list-style-type: none">Files other than the recorded files are included in the folder.<ul style="list-style-type: none">→ Open the data using Windows Explorer, and delete the files other than files recorded by the player.

Troubleshooting (continued)

Connection with the computer

Symptom	Cause/Remedy
"USB CONNECT" does not appear when the player is connected to the computer.	<ul style="list-style-type: none">• The player's USB connector is not inserted to a USB port on your computer properly. → Disconnect the player, and then reconnect it.• A USB hub is being used. → Connect the player directly to a USB port as connection via a USB hub may not work. However, a USB hub that supplies power can be used.• Another application is running on the computer. → Disconnect the player, wait a few minutes, and reconnect it. If the problem persists, disconnect the player, restart the computer, and then reconnect the player.
The player is not recognized by the computer when it is connected to the computer.	<ul style="list-style-type: none">• The player's USB connector is not inserted to a USB port on your computer properly. → Disconnect the player, and then reconnect it.• A USB hub is being used. → Connect the player directly to a USB port as connection via a USB hub may not work. However, a USB hub that supplies power can be used.• The USB port on your computer may have a problem. Insert the player's USB connector to another USB port on your computer.

Symptom	Cause/Remedy
Audio files cannot be transferred to the player from your computer.	<ul style="list-style-type: none">• Transferring may be stopped due to noise such as static electricity, etc. → This happens to protect data information. Disconnect the player, then reconnect it.• The player's USB connector is not inserted to a USB port on your computer properly. Make sure that "DATA ACCESS" or "USB CONNECT" appears on the display. → Disconnect the player, and then reconnect it.• There is not enough free space in the built-in flash memory. → Delete unnecessary songs to increase free space.• Abnormal file(s) exists on the player. → Transfer your necessary files back to your computer and format the player (page 42).• An audio file is damaged. → Delete the audio file then transfer it again. When transferring the audio file, close any other applications to avoid file damage.• If you transfer data using an appropriate software for transferring, but the transfer is not made, refer to the manufacturer.
Only a small number of songs can be transferred to the player.	<ul style="list-style-type: none">• There is not enough free space in the built-in flash memory. → Delete unnecessary songs to increase free space.• Non-audio file(s) is stored in the built-in flash memory. → Move non-audio files to the computer to increase free space.
The player becomes unstable while it is connected to the computer.	<ul style="list-style-type: none">• A USB hub is being used. → Connect the player directly to a USB port as connection via a USB hub may not work. However, a USB hub that supplies power can be used.

FM Tuner

Symptom	Cause/Remedy
You cannot hear the FM broadcast well.	<ul style="list-style-type: none"> The receiving frequency is not fully tuned in. → Select the frequency manually to improve reception (☞ page 27).
Reception is weak and sound quality is poor.	<ul style="list-style-type: none"> The radio signal is weak. → Listen to the FM broadcast near a window since the signal may be weak inside buildings or vehicles. The headphone cord is not extended enough. → The headphone cord functions as an antenna. Extend the headphone cord as far as possible.
The FM broadcast is affected by interference.	<ul style="list-style-type: none"> A device emitting radio signals, such as a mobile phone is being used near the player. → When using such devices as mobile phones, keep them away from the player.

Other

Symptom	Cause/Remedy
There is no beep sound when the player is operated.	<ul style="list-style-type: none"> “Beep” is set to “Beep OFF.” → Set “Beep” to “Beep ON” (☞ page 41).
The beep sound level varies.	<ul style="list-style-type: none"> The beep sound level varies according to the current volume of the player.
The player gets warm.	<ul style="list-style-type: none"> The player may be warm when the battery is being charged and just after charging. The player also may get warm when a large amount of files are transferred. This is normal and is not cause for concern. Set the player aside for a while to allow it to cool down.
The date and time have been reset.	<ul style="list-style-type: none"> If you left the player for a while with the battery used up, the date and time may be reset. → This is not a malfunction. Charge the battery until  appears on the screen (☞ page 13) and set the date and time again (☞ page 41).
All settings of the player have been reset.	<ul style="list-style-type: none"> You moved, deleted, or renamed the system files. Or, the built-in flash memory of the player was formatted using other than the “Format” menu of the player. → If you do any of the above operations, the system will be restructured and all settings of the player will be reset when you disconnect the player from the computer or other devices. If the player does not function normally after you format the player using other than the “Format” menu of the player, format the built-in flash memory using the “Format” menu of the player (☞ page 42).

Continued ☞

To initialize (format) the player

Be sure to format the built-in flash memory using the “Settings” menu on this player following the procedure below. (Check all contents before formatting as all data stored will be erased.)

1 Press and hold the BACK/HOME button until the HOME menu appears.

2 Select “Settings” – “Format” – “OK,” in this order.

Press the  button to select the item, and then press the  button to confirm.

After selecting “OK” and confirming, “FORMATTING...” appears and formatting starts. When formatting is complete, “COMPLETE” appears.

Messages

Follow the instructions below if a message appears in the display.

Message	Meaning	Remedy
AVLS (blinks)	The volume level exceeds the rated value while “AVLS(Volume Limit)” is enabled.	Turn the volume down or disable “AVLS(Volume Limit)” (☞ page 41).
CHARGING	The battery is being charged.	This is not an error. Wait until the battery is charged fully. However, you can use the player with the battery not charged fully.
DATA ACCESS	Accessing the built-in flash memory.	This message appears while the built-in flash memory is being accessed. Please wait for access to complete.
DRM ERROR	An unauthorized distribution file is detected for copyright protection.	Transfer the normal audio file back to the computer and then format the built-in flash memory.
EXPIRED	You are trying to play a song that has an expiration/playback time restriction.	If the song which cannot be played is unnecessary, you can erase it from the built-in flash memory.
FILE ERROR	<ul style="list-style-type: none"> • The file cannot be read. • The file is not normal. • The player cannot play certain files because of incompatible formats. • Transferring has been interrupted forcefully. 	<ul style="list-style-type: none"> • Transfer the normal audio file back to the computer and then format the player. • If the song which cannot be played is unnecessary, you can delete it from the built-in flash memory.

Troubleshooting (continued)

Message	Meaning	Remedy
HOLD	The player cannot be operated because the HOLD switch is set to the HOLD position.	To operate the player, rotate the HOLD switch to the opposite position (☞ page 9).
LOW BATTERY	The battery is low.	You must charge the battery (☞ page 12).
MEMORY FULL	<ul style="list-style-type: none">There is not enough free space in the built-in flash memory.You are trying to record the FM radio or sound while the player has a combined total of 999 files and folders.You have changed the files in the [Record] folder.	<ul style="list-style-type: none">Connect the player to the computer and delete any unnecessary songs to increase free space on the player.You cannot record more than 999. Connect the player to the computer and delete any unnecessary songs or files.Copy the files of the [Record] folder to your computer, and then delete the [Record] folder of the player. Then transfer those files which you have copied to a folder other than the [Record] folder on your computer to play them on the player as audio content.

Message	Meaning	Remedy
MEMORY IS FULL	<ul style="list-style-type: none">The data base cannot be made because the memory of the player is full.	<ul style="list-style-type: none">Delete unnecessary files. At least 20 MB of some free space is necessary to function normally. You can check the free space by clicking [My Computer], right-clicking [WALKMAN], and then opening the [Properties] window by left-click.
REMOVE CONTENT	<ul style="list-style-type: none">You are trying to record the FM radio or sound while the player has a combined total of 999 files and folders.You have changed the files in the [Record] folder.	<ul style="list-style-type: none">You cannot record more than 999. Connect the player to the computer and delete any unnecessary songs or files.Copy the files of the [Record] folder to your computer, and then delete the [Record] folder of the player. Then transfer those files which you have copied to a folder other than the [Record] folder on your computer to play them on the player as audio content.
NO DATA	There are no audio files in the built-in flash memory.	Transfer audio files.
NO ITEM	No song exists in the selected item.	Transfer audio files.
READ ONLY	You are trying to delete [Read-only] songs.	Delete the data using Windows Explorer.
USB CONNECT	The player is connected to a computer.	This is not an error. You cannot operate the controls on the player while connecting to a computer.

Precautions

On safety

- Be sure not to short-circuit the terminals of the player with other metallic objects.
- Do not touch the rechargeable battery with bare hands if it is leaking. Since battery liquid may remain in the player, consult your nearest Sony dealer if the battery has leaked. If the liquid gets into your eyes, do not rub your eyes as it may lead to blindness. Wash out your eyes with clean water, and consult a doctor.
Also, if the liquid gets on to your body or clothes, wash it off immediately. If you do not, it may cause burns or injury. If you get burned or injured by the liquid from the battery, consult a doctor.
- Do not pour water or put any foreign object in the player. Doing so may cause fire or electric shock. If this occurs, turn off the player immediately, and consult your nearest Sony dealer or Sony Service Center.
- Do not put the player into the fire.
- Do not take apart or remodel the player. Doing so can result in electric shock. Consult your nearest Sony dealer or Sony Service Center for exchange of rechargeable batteries, internal checks or repair.

On installation

- Do not put any heavy object on top of the player or apply a strong shock to the player. It may cause a player to malfunction or damage.
- Never use the player where it will be subjected to extremes of light, temperature, moisture or vibration. The player may become discolored, distorted or damaged.
- Never leave the player exposed to high temperature, such as in a car parked in the sun or under direct sunlight.
- Do not leave the player in a place subject to excessive dust.
- Do not leave the player on an unstable surface or in an inclined position.
- If the player causes interference to radio or television reception, turn the player off and move it away from the radio or television.

- When using the player, remember to follow the precautions below in order to avoid warping the cabinet or causing the player to malfunction.
 - Make sure not to sit down with the player in your back pocket.

- Make sure not to put the player into a bag with the headphones/earphones cord wrapped around it and then subject the bag to strong impact.

- Do not expose the player to water. The player is not waterproof. Remember to follow the precautions below.
 - Be careful not to drop the player into a sink or other container filled with water.
 - Do not use the player in humid locations or bad weather, such as in the rain or snow.
 - Do not get the player wet.
If you touch the player with wet hands, or put the player in a damp article of clothing, the player may get wet and this may cause a malfunction of the player.
- When you unplug the headphone from the player, make sure to hold the headphone plug to unplug it. Pulling the headphone cord itself may cause damage to the headphone cord.



On heat build-up

Heat may build up in the player while charging if it is used for an extended period of time.

On the headphones

Road safety

Avoid listening with your headphones in situations where hearing must not be impaired.

Preventing hearing damage

Avoid using the headphones at a high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce the volume or discontinue use.

Do not turn the volume up high all at once, especially when using headphones.

Turn up the volume gradually so that loud sound will not hurt your ears.

Caring for others

Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

Warning

If there is lightning when you are using the player, take off the headphones immediately.

If you experience an allergic reaction to the supplied headphones, stop using them at once and contact a doctor.

On the use

- When using a strap (sold separately), be careful to avoid hooking it on objects you pass by. Furthermore be careful not to swing the player by the strap to avoid bumping people.
- Refrain from using the player according to the in-flight announcements during take off or landing in an aircraft.
- Note that condensation may form temporarily in cases such as when the player is moved quickly from a low-temperature environment to a high temperature environment or used in a room that has a heater just turned on. Condensation creates a phenomenon where moisture in the air adheres to surfaces such as metal panels, etc., and then changes to liquid. If condensation forms in the player, leave it turned off until the condensation disappears. If you use the player with condensation present, a malfunction may result.

On the LCD

- Do not push the LCD screen strongly. Color spots may appear or the LCD panel may be damaged.
- If the player is used in a cold place, ghosting may occur. This does not indicate a failure.
- If the player is used in a cold or hot place, contrast may be affected.

On cleaning

- Clean the player's case with a soft cloth, such as cleaning cloth for eyeglasses.
- If the player's case becomes very dirty, clean it with a soft cloth slightly moistened with water or a mild detergent solution.
- Do not use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzene, as it may mar the finish of the case.
- Be careful not to let water get into the player from the opening near the connector.
- Clean the headphone plug periodically.
- If you have any questions or problems concerning the player, please consult your nearest Sony dealer.

Additional Information (continued)

On software

- Copyright laws prohibit reproducing the software or the manual accompanying it in whole or in part, or renting the software without the permission of the copyright holder.
- In no event will SONY be liable for any financial damage, or loss of profits, including claims made by third parties, arising out of the use of the software supplied with player.
- In the event a problem occurs with this software as a result of defective manufacturing, SONY will replace it. However, SONY bears no other responsibility.
- The software provided with the player cannot be used with equipment other than that which is so designated.
- Please note that, due to continued efforts to improve quality, the software specifications may be changed without notice.
- Operation of this player with software other than that provided is not covered by the warranty.
- The ability to display the languages on supplied software will depend on the installed OS on your computer. For better results, please ensure that the installed OS is compatible with the desired language you like to display.
 - We do not guarantee all the languages will be able to be displayed properly on supplied software.
 - User-created characters and some special characters may not be displayed.
- The explanations in this manual assume that you are familiar with the basic operations of Windows. For details on the use of your computer and operating system, please refer to the respective manuals.

About the customer support Web sites

If you have any questions about or issue with this product, visit the following Web sites.

For customers in the USA: <http://www.sony.com/walkmansupport>

For customers in Canada: <http://www.sony.ca/ElectronicsSupport/>

Specifications

Audio compression technology (supported bit rates and sampling frequency^{*1})

- MP3 (MPEG-1 Audio Layer-3)
32 to 384 kbps variable bit rate-compliant, 11.025 to 48 kHz
- WMA (Windows Media Audio)
48 to 320 kbps variable bit rate-compliant, 22.05 to 48 kHz

^{*1} Sampling frequency may not correspond to all encoders.

Maximum recordable number of songs and time (Approx.)

The approximate times are based on a transferred 4-minute MP3 format song.

Other playable audio file format song and time number may be different than MP3 format.

NWZ-B103F		NWZ-B105F		
Bit rate	Songs	Time	Songs	Time
64 kbps	490	32 hr. 40 min.	990	66 hr. 00 min.
128 kbps	250	16 hr. 40 min.	500	33 hr. 20 min.
256 kbps	125	8 hr. 20 min.	250	16 hr. 40 min.
320 kbps	99	6 hr. 30 min.	200	13 hr. 20 min.

Continued 

Additional Information (continued)

Maximum recordable time (Approx.)

The times below are estimated for the case where only FM or Voice audio files are stored. The time may differ, depending on the conditions under which the player is used.

NWZ-B103F	NWZ-B105F
Codec (Bit rate)	Time
High(192kbps)	11 hr. 00 min.
Mid(128kbps)	16 hr. 20 min.
Low(96kbps)	22 hr. 00 min.
	22 hr. 20 min.
	33 hr. 20 min.
	44 hr. 20 min.

Capacity (User available capacity)*1

NWZ-B103F: 1 GB (Approx. more than 910 MB = 977,105,060 bytes)

NWZ-B105F: 2 GB (Approx. more than 1.81 GB = 1,943,472,701 bytes)

*1 Available storage capacity of the player may vary.

A portion of the memory is used for data management functions.

Output (headphones)

Frequency response:

20 to 20,000 Hz (when playing data file, single signal measurement)

FM tuner

- Preset: 30 presets
- FM Frequency range: 87.5 to 108.0 MHz

Antenna

Headphone cord antenna

Interface

Headphone: Stereo mini

Hi-Speed USB (USB 2.0 compliant)

Operating temperature

5 °C to 35 °C (41 °F to 95 °F)

Power source

- Built-in 240 mA lithium-ion battery
- USB power (from a computer through a USB connector of the player)

Charging time

USB-based charging

Approx. 120 minutes

Battery life (continuous playback)*1 (Approx.)

*1 This is when "Power Save Mode" (page 41) is set to "Save ON Super." The battery duration will vary depending on temperature and usage.

Status of the player	NWZ-B103F/B105F
Playback at MP3 128 kbps	12 hours
Playback at WMA 128 kbps	9 hours
At receiving FM broadcasting	7 hours

Display

3-line Color LCD

Dimension (w/h/d, projecting parts not included)

25.0 × 88.5 × 14.1 mm (1 × 3 1/2 × 9/16 inches)

Dimension (w/h/d)

25.0 × 89.9 × 16.7 mm (1 × 3 5/8 × 11/16 inches)

Mass

Approx. 30 g (Approx. 1.1 oz)

Additional Information (continued)

System Requirements

- Computer
IBM PC/AT or compatible computer preinstalled with the following Windows operating systems^{*1}: Windows XP Home Edition (Service Pack 2 or later) / Windows XP Professional (Service Pack 2 or later) / Windows XP Media Center Edition (Service Pack 2 or later) / Windows XP Media Center Edition 2004 (Service Pack 2 or later) / Windows XP Media Center Edition 2005 (Service Pack 2 or later) / Windows Vista Home Basic / Windows Vista Home Premium / Windows Vista Business / Windows Vista Ultimate
Not supported by 64 bit version OS.
Not supported by OSs other than above.
- *¹ Excluding OS Versions not supported by Microsoft.
- CPU: Pentium III 450 MHz or higher (For Windows Vista, Pentium III 800 MHz or higher)
- RAM: 128 MB or more (For Windows Vista, 512 MB or more)
- CD-ROM drive: Supporting Digital Music CD playback capabilities using WDM. To create original CDs, a CD-R/RW drive is required.
- USB port (Hi-Speed USB is recommended)
- Internet Explorer 6.0 or later, and Windows Media Player 10 or 11 need to be installed.
- Broadband Internet connection is required to use Electronic Music Distribution (EMD) or to visit the web site.

We do not guarantee operation for all computers even if they meet the above System Requirements.

Not supported by the following environments:

- Personally constructed computers or operating systems
- An environment that is an upgrade of the original manufacturer-installed operating system
- Multi-boot environment
- Multi-monitor environment
- Macintosh

Design and specifications are subject to change without notice.

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